Name of Work:- Improvements to roads & drains of byregowda layout in ward no.07 Byataranapura. **Estimated Cost:- 25.00 Lakhs**

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	1st A Cross		2	132.00	0.95	1.00	250.80		
	For Pit		8	3.14*0.6*0.6		3.00	6.78		
	(3.14x0.8x0.8)/4 x 3.0			4					
	Over burden		1	7.00	1.80	1.20	15.12		
					TOTAL		**272.70**	137.80	**37579.00**
	Basic Rate:	cum	**130.00**						
	Area Weightage @		7.80						
	Total		**137.80**						
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Pg.No.13, It.4.2)**								
	RCC DRAIN-BOTTOM								
	1st A Cross		2.00	132.00	0.95	0.15	37.62		
					TOTAL		**37.62**	5505.64	**207123.00**
	Basic Rate:	cum	5194.00						
	Area Weightage @ 6%		311.64						
	Total		5505.64						

3	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Bottom								
	1st A Cross		2.00	132.00	0.75	0.15	29.70		
	Side Wall								
	1st A Cross	2x2	4.00	132.00	0.15	0.60	47.52		
					TOTAL		**77.22**	5747.32	**443808.05**
	Basic Rate:	cum	5422.00						
	Area Weightage @ 6%		325.32						
	Total		**5747.32**						
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Reinforcement for side wall						77.22		
			At 55 Kg % per cum				**4.25**	72326.98	**307180.00**
	Basic Rate:	Tonn	68233.00						
	Area Weightage @		4093.98						
	Total		72326.98						
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE WALL								
	1st A Cross	2x4	8	132.00		0.60	633.60		
							633.60	483.36	**306257.00**
	Basic Rate:	Sqm	456.00						
	Area Weightage @		27.36						
	Total		483.36						

6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Covering Slab								
	1st A Cross		445		0.60	0.75	200.25		
							200.25	2337.00	**467984.25**
7	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x150x500 mm and finished with CM 1:3 plastering and finishing cutting etc., complete.Pg No. 27, Item No.5.29.1								
443808.05	**1st A Cross**		2	132.00			264.00		
							264.00		
			TOTAL(total length/0.45)				**590.00**	467.46	**275802.00**
	Basic Rate:	Nos	441.00						
	Area Weightage @ 6%		26.46						
	Total		**467.46**						
8	KSRB 5-9.1:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 124 / Item No. 15.80								
307180.00			590.00		0.45		265.50		
					TOTAL		**265.50**	39.22	**10413.00**
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		**39.22**						
9	KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 1000,2300 Page No. 255, Item No. 34.7.8, PWD SR 2018-19								
306257.00			8	3.00	--	--	24.00		
					TOTAL		**24.00**	5976.28	**143430.72**
	Basic Rate:	mtr	5638.00						
	Area Weightage @ 6%		338.28						
	Total		5976.28						

10	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)							
	For Pit		8	0.28	1.00	2.26		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**2.26**	987.62	**2232.02**
11	Providing 40mm and down size nominal size (Pg No.II.Item No.25)							
	For Pit		8	0.28	0.40	0.90		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**0.90**	1091.43	**982.29**
12	Providing 20mm and down size nominal size (Pg No.II.Item No.28)							
	For Pit		8	0.28	0.40	0.90		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**0.90**	1091.43	**982.29**
13	Providing Fine aggrgate 2.36mm nominal size (Pg No.II.Item No.32)							
	For Pit		8	0.28	0.30	0.68		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**0.68**	1054.29	**716.92**
14	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)							
			16			16.00		
					TOTAL	**16.00**	89.84	**1437.36**
	Basic Rate:	Nos	84.75					
	Area Weightage @ 6%		5.09					
	Total		89.84					

2232.02	15	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No.							
		Basic Rate	cum	**57.00**				272.70	94.34	**25727.00**
		Rs. 2.50 Tonne								
982.29		**Average Weight of earth 1.28 Tonne/Km.**								
982.29		**For 10 Km**								
		Rs.2.50X1.28To		**32.00**						
716.92		**Total**		**89.00**						
		Add Area Weightage6%		**5.34**						
1437.36				**94.34**						
	16						**Sub Total**			**2231654.89**
	17						**Add 12% GST charges**			**267798.59**
	18						**Miscelleneous charges**			**546.52**
	19						**Total**			**2500000.00**

; **1)This is certified that the work spot comes under BBMP limits only.**
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

~~Asst.Engineer~~
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer 18/03
Byatrayanapura Division
B.B.M.P.
18/03

Administrative Approval

Accorded For Rs 25.00 lakhs only
Head of A/C P.37.26.....
CER NO :..108..... Dt:20.03.2020

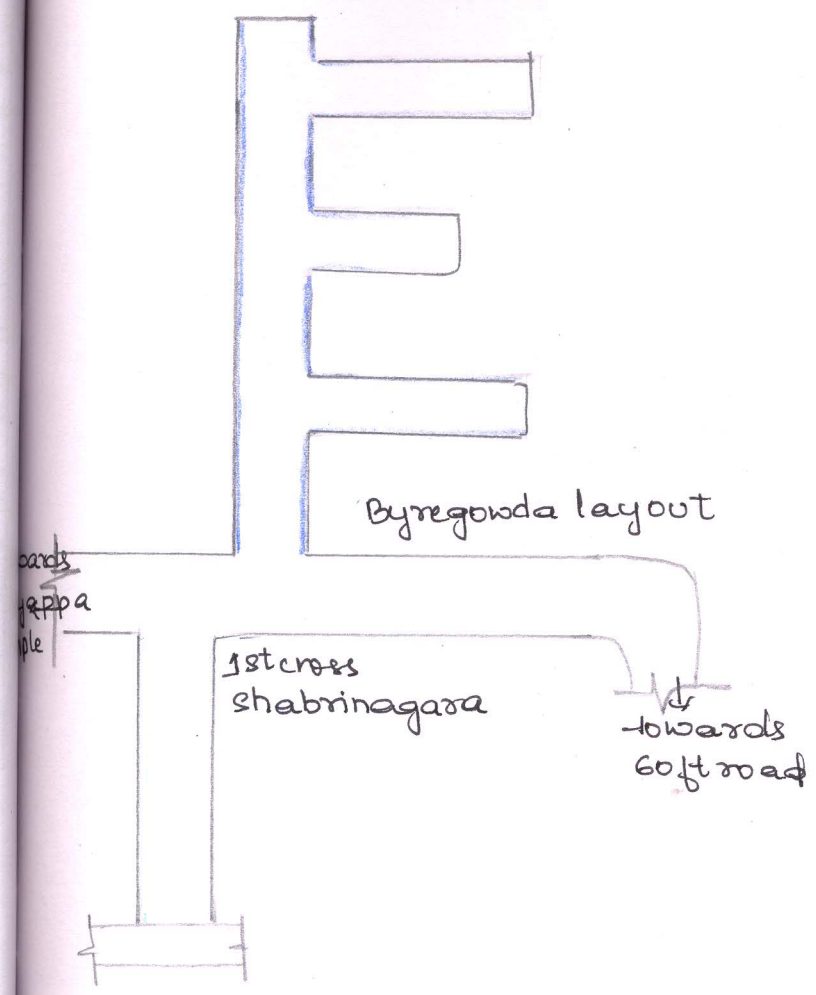
TA CE (YNK)

Technical Sanction

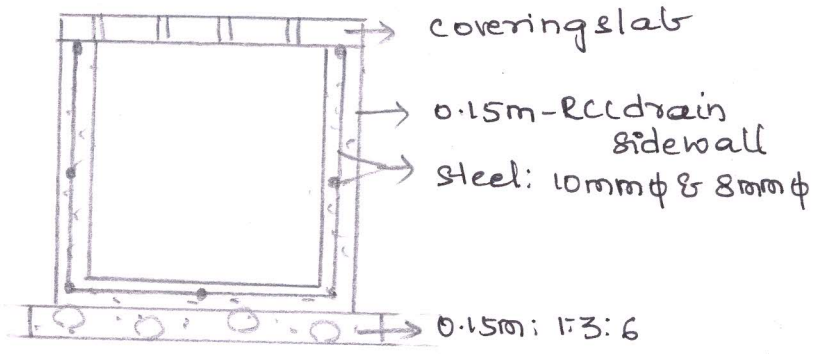
Accorded For Rs 25.00 lakhs only
Head of A/C. P.37.26.....
CER NO :..306..... Dt:20.03.2020

TA CE (YNK)

Name of work:- Improvements to roads and drains of byregowda layout in ward no.07, byatarayanapura.



PLAN



	Index
	-RCC drain

CROSS SECTION OF RCC DRAIN

Asstt.E.E
AE(WT)